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Envelope detector and method for determining whether the level of a differential input signal DPIN - DNIN is above a reference voltage V_{REF} . The differential input signal is converted to a differential current $IDP - IDN$, the reference voltage is converted to a reference current I_{REF} , the currents are compared to determine if $|IDP - IDN|$ is greater than I_{REF} , and a valid differential signal is indicated when $|IDP - IDN|$ is greater than I_{REF} .